



350968

**NOVAK - DEMPSEY & ASSOCIATES, INC**

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1582 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

**SOIL BORING LOG**

**RECEIVED**

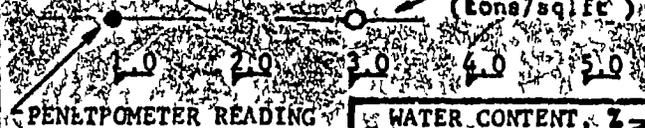
APR 27 1970

BORING NO: 1  
 CLIENT: CITY OF WAUKEGAN - PARK DISTRICT  
 LOCATION SITE: Sanitary Land Fill Site No. 6

DIVISION OF SANITARY ENGINEERING

DEPARTMENT OF PUBLIC HEALTH  
 (tons/sq. ft.)

**UNCONFINED COMPRESSION TEST**



**STANDARD "N" PENETRATION (blows/ft.)**

10 20 30 40 50

Depth (ft.)	Sample Range	Sample Recovery	Comments	Description of Material	Unit Dry Wt. (lbs/cu. ft.)
0.0			Existing Surface Elev. ft. 703	Black topsoil (15")	
1.0				Brown clay, some silt and sand, trace fine gravel, damp, very tough	123
2.0				Brown clay, some silt, fine sand, trace gravel, damp, very tough	116.9
3.0				Brown silt, some fine sand, damp, medium dense	113.3
4.0				Gray-brown clay, some silt and fine sand damp, tough	
5.0				Gray clay, some silt and fine sand, trace fine gravel, damp, tough	123.4
6.0					
7.0					
8.0					
9.0					
10.0				Gray clay, some silt and fine sand, trace gravel, damp, very tough	113.0
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					
21.0					
22.0					
23.0					
24.0					
25.0					
26.0					
27.0					
28.0					
29.0					
30.0				End of Boring	120.6

Depth (ft.)	Penetrometer Reading	Water Content (%)	Standard "N" Penetration (blows/ft.)
0.0			
1.0			
2.0			
3.0			
4.0			
5.0			
6.0			
7.0			
8.0			
9.0			
10.0			
11.0			
12.0			
13.0			
14.0			
15.0			
16.0			
17.0			
18.0			
19.0			
20.0			
21.0			
22.0			
23.0			
24.0			
25.0			
26.0			
27.0			
28.0			
29.0			
30.0			

**PROJECT APPROVAL**

Solid waste disposal site or utility. By indicating their approval hereon, the signers hereby attest that the proposed refuse of solid waste disposal site or proposed site improvements or additions thereto will be under proper supervision of a qualified operator or other responsible person.

**FOR CONSTRUCTION OR ESTABLISHING APPROVAL** Date April 16, 1970

City of Waukegan

(Signature of Applicant or Agent)

Owner

Title Owner Installer or Agent

**FOR OPERATION AND MAINTENANCE APPROVAL**

T-K City Disposal, Inc.

(Owner/Installer or Agent)

Installer

Attested

4-16-70

(Date)

Jeanne J. Birtch

(Signature)

Notary

(Title)

**THE FOLLOWING INFORMATION IS REQUESTED**

- 1 Size of area in acres 22(+) acres Also give length and width See drawing #1 feet
- 2 Volume and/or weight of waste anticipated per day <sup>(1)</sup> 500-700 C.Y. \* month 12,000-16,800 C.Y. \*  
year 145,500-203,700 C.Y. \* \*Not compacted
- 3 The number of days per week the site will be open for operation 5 1/2
- 4 Population to be served 85,000 (±)
- 5 Type of waste or refuse to be handled at this site garbage, brush, demolition materials, large bulky material and paper Everything will be covered at the end of every day  
(Garbage Brush Concrete Chemical or Toxic Materials etc)
- 6 Distance to the nearest water well 200 ft to the nearest residence 175 ft
- 7 Depth to the water table in feet 150 ft Test is required and 10 feet of clay or equivalent barrier between the bottom of the fill and water table is desired Greater depth may be required in critical areas

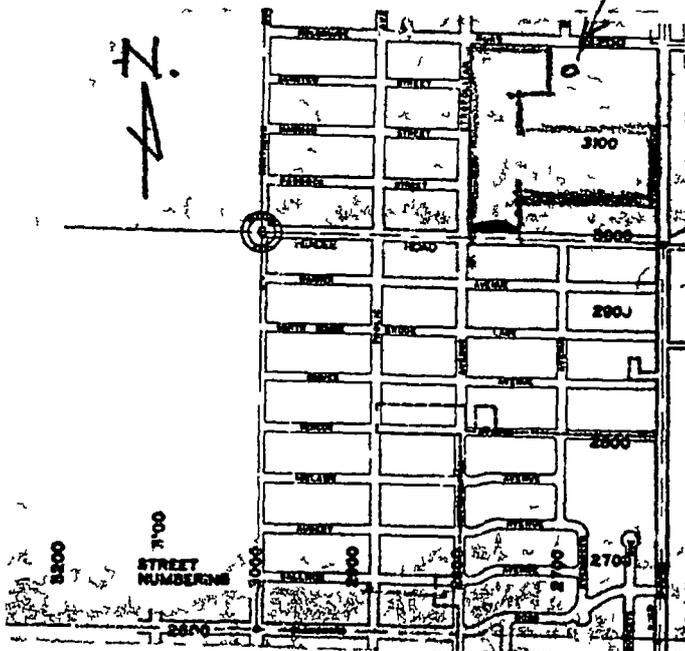
8. Provide topographic map with contour intervals not greater than 1 foot, on a Base Plan Sheet #1, showing the location of the site and the proposed trench.
9. Length, width and depth of proposed trench: Length - 250 ft., Width - 30 ft., Depth - 35 ft.  
 maximum number of trenches at one time if trenches are used: Two (2)
10. Equipment to be used: Drag Line Crane (2 yd.), Caterpillar Tractor 977R (3yd. loader bucket), 6-wheel Dump trucks.  
 (a) Number & Type of Units: Scraper, Grader (b) Size of Each: \_\_\_\_\_
11. Indicate method of handling and treatment of any leachate. Show on topographic map method of diverting surface or storm water runoff and the stream or water course. Indicate the frequency in days per year the site will be subject to being flooded.  
Burial  
 Do not expect flooding anytime under any weather conditions.
12. What method and/or equipment is proposed for the control of fires: City of Waukegan Fire Department
13. The area proposed will be adequate to serve the area population for a number of years: 5 to 6 years  
 to 19 76
14. SUBMIT A LEGAL DESCRIPTION OF SITE

TO BE COMPLETED BY ENGINEER OR OWNER

LOCATION SKETCH Show area of site or facility, closest water well, habitation, quarter section, section, township and range. (This information is in addition to the detail plans and specifications for construction and operation)

LEGAL DESCRIPTION

Lots 4, 6, 7, 9 and 10, Holdridge-McAree Subdivision, being a subdivision of the Southeast quarter of the North-east quarter of Section 6, Township 45 North, Range 12, East of the Third Principal Meridian, all in the County of Lake, State of Illinois



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## SOIL BORING LOG

BORING NO. 2

CLIENT: CITY OF WAUKEGAN - PARK DISTRICT

LOCATION SITE: Sanitary Land Fill Site No. 6

Proj. No. 1998 Date 3/25 By RN

Equip. Used CME Drill

Comments

**DESCRIPTION OF MATERIAL**

Existing Surface Elev. ft. 702

Black topsoil (17")

Brown clay, some silt and fine sand, damp, hard

Gray-brown clay, some silt, trace fine sand, damp, very tough

Gray clay, some silt, trace fine sand, and fine gravel, damp, very tough

Gray clay, some silt, trace fine sand and fine gravel, damp, tough

End of Boring

UNCONFINED COMPRESSION TEST, Strength (tons/sq ft.)



PENETROMETER READING WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)



Sample Range (ft.)	Sample Recovery
0.0 - 0.5	
0.5 - 1.0	
1.0 - 1.5	
1.5 - 2.0	
2.0 - 2.5	
2.5 - 3.0	
3.0 - 3.5	
3.5 - 4.0	
4.0 - 4.5	
4.5 - 5.0	
5.0 - 5.5	
5.5 - 6.0	
6.0 - 6.5	
6.5 - 7.0	
7.0 - 7.5	
7.5 - 8.0	
8.0 - 8.5	
8.5 - 9.0	
9.0 - 9.5	
9.5 - 10.0	

Unit Dry Wt. (lbs/cu ft.)
116.1
116.6
116.8
114.8
117.5
99.4

Penetrometer Reading	Water Content (%)	Standard "N" Penetration (blows/ft.)
1.0		
1.5		
2.0		
2.5		
3.0		
3.5		
4.0		
4.5		
5.0		

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## SOIL BORING LOG

BORING NO. 3

CLIENT: CITY OF WAUKEGAN - PARK DISTRICT

LOCATION-SITE: Sanitary Land Fill Site No. 5

Proj. No. 1998 Date: 3/25 By: RN

Equip. Used: CME Drill

Comments:

### DESCRIPTION OF MATERIAL

Existing Surface Elev. ft. 696

Black topsoil (6")

Brown clay, some silt and fine sand, trace fine gravel, damp, very tough

6" (n) below

Brown clay, some silt and fine sand

Gray clay, some silt and fine sand, damp very tough with intermittent layers of silt, trace of clay

End of Boring

(a) Gray-brown silt, some fine sand and clay, damp, medium dense



UNCONF. DRY WT. (lbs/cu. ft.)

116.7

117.5

117.3

118.2

118.2

Sample Recovery

0

5.0

10.0

15.0

20.0

25.0

30.0

35.0

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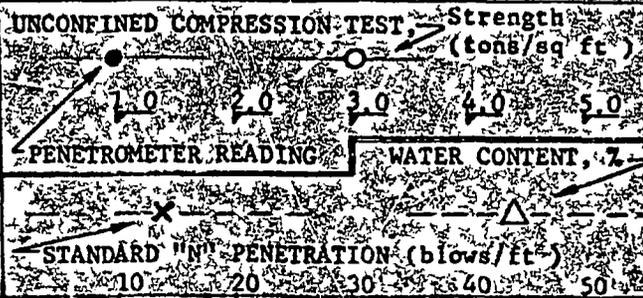
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## SOIL BORING LOG

BORING NO. 14  
 CLIENT: CITY OF WAUKEGAN PARK DISTRICT  
 LOCATION SITE: Sanitary Land Fill Site No. 6



Sample Range	Proj. No. 1998	Date: 4/8/70	By: RN
Sample Recovery	Eqipt. Used CME Drill		
	Comments		
	DESCRIPTION OF MATERIAL		
	Existing Surface	Elev. ft. 692	
0	Black topsoil (2 1/2')		
5	Brown clay, some silt and fine sand, trace gravel, damp, tough		
10	Brown clay, some silt and fine sand, trace gravel, damp, very tough		
15	Gray silt, some clay and fine sand, damp, medium dense		
20	Gray-brown clay, some silt and fine sand, damp, very tough		
25	Gray clay, some silt and fine sand, damp hard		
	Gray clay, some silt and fine sand, damp very tough		
	End of Boring		

Unit Dry Wt. lbs/cu ft	10	20	30	40	50
1073	○	△			
1081	△	○			
1159	△	○			
1150	△	○			
1189	△		○		
1077		△			



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## SOIL BORING LOG

BORING NO. 6

CLIENT CITY OF WAUKEGAN • PARK DISTRICT

LOCATION SITE Sanitary Land Fill Site No. 6

Proj. No. 1998 Date: 4/8/70 By: RN

Equip. Used: CME Drill

Comments:

### DESCRIPTION OF MATERIAL

Existing Surface Elev. ft. 690

Black topsoil (8")

Brown clay, some silt and fine sand, trace fine gravel, damp, hard

Gray clay, some silt and fine sand, trace fine gravel, damp, very tough

see (a) below

Gray clay, some silt, trace fine sand and fine gravel, damp, very tough

Gray clay, some silt, trace fine sand and fine gravel, damp, hard

End of Boring

(a) Gray silt, some fine sand, damp, medium dense

UNCONFINED COMPRESSION TEST Strength (tons/sq. ft.)

PENETROMETER READING

WATER CONTENT, %

STANDARD PENETRATION (blows/ft.)

10 20 30 40 50

Units: Dry Weight lbs/cu ft

101  
1012  
1013  
1016  
1016

Sample Range  
Sample Recovery

Depth (ft)	Penetrometer Reading	Water Content (%)	Standard Penetration (blows/ft)
0 - 8"			
8" - 101	△		○
101 - 1012	△		○
1012 - 1013	△		
1013 - 1016	○△		
1016 - 1016	△		○

Weather Conditions:

Water Level 8' @ 0 Hrs after test

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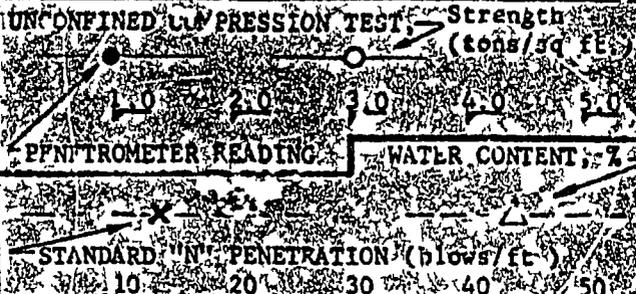
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## SOIL BORING LOG

BORING NO: 7  
 CLIENT: CITY OF WAUKEGAN - PARK DISTRICT  
 LOCATION SITE: Sanitary Land Fill Site No. 6



Proj. No. 1998 Date: 6/8/70 By: RN  
 Eqipt. Used: CME Drill  
 Comments:

### DESCRIPTION OF MATERIAL

Existing Surface Elev. ft.: 685  
 Black organic soil (12")

Brown-gray clay, some silt, trace fine sand and fine gravel, damp, tough

Brown clay, some silt and fine sand, trace fine gravel, damp, tough

Brown silt, some gray silt and fine sand, damp, dense

Gray silt, some fine sand, damp, dense

Gray clay, some silt and fine sand, trace fine gravel, damp, tough

End of Boring

Unit Dry Wt. lbs/cu ft.

1089

1179

1150

Sample Range Sample Recovery

10 0

10 0

10 0

20 0

the Co.

Waukegan/Muni #1

Well No  
WB-2

Depth of Well  
53'

Depth to Water  
~~42.5'~~ 25.3'